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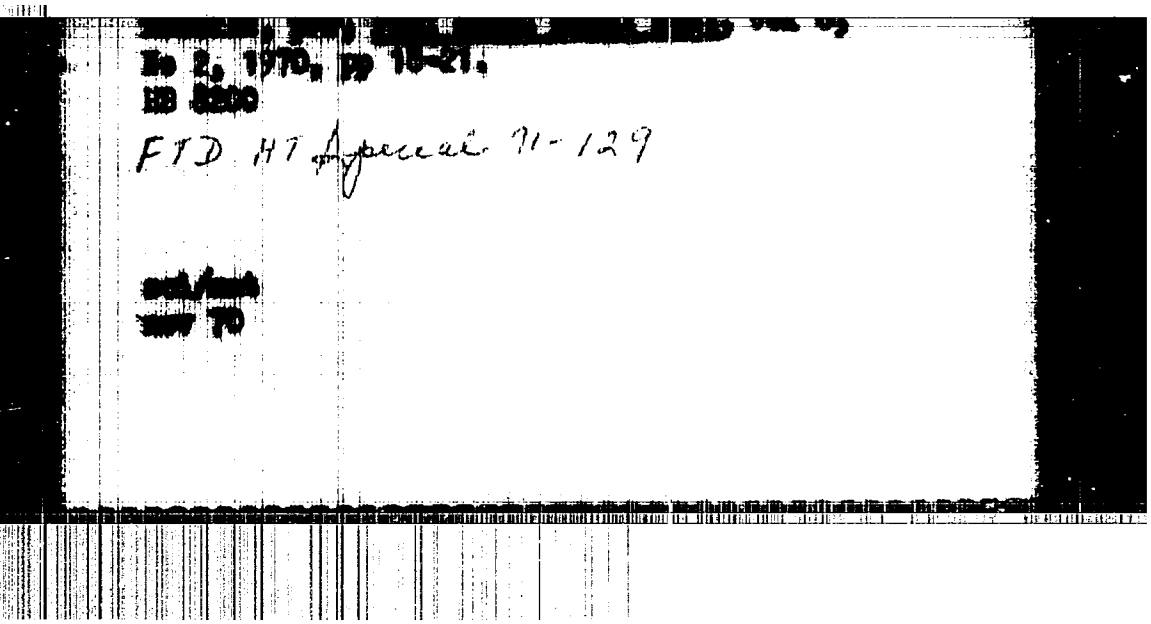

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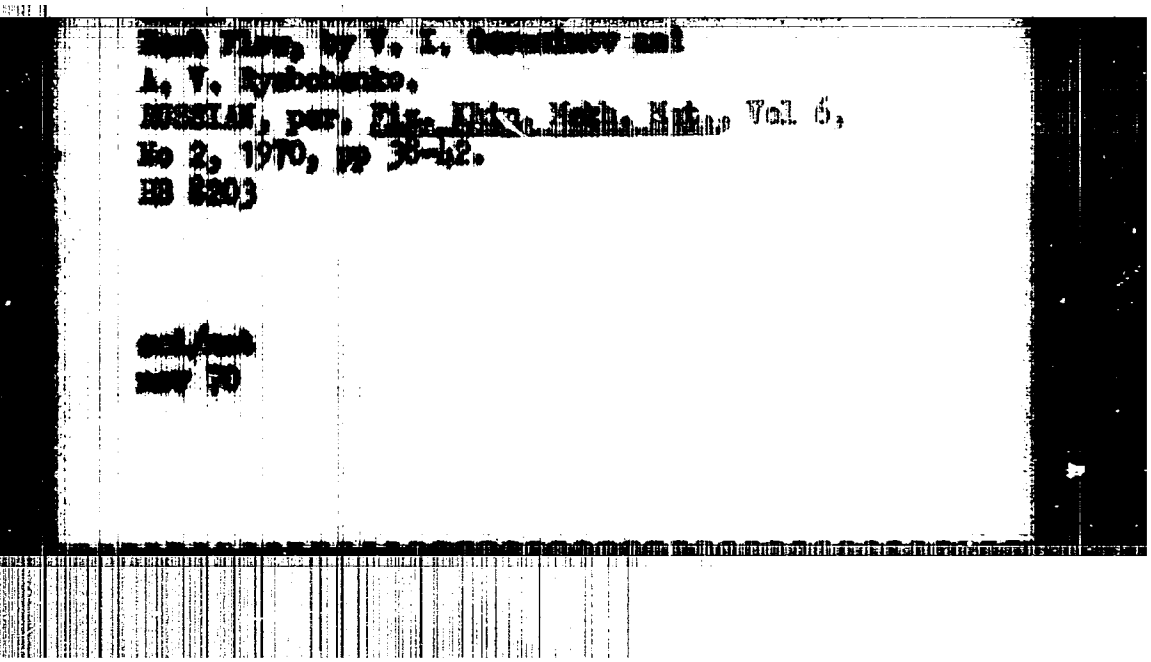

Shock Flare, by V. I. Osavchuk and
A. V. Rybchenko.
RUSSIAN, pur. Fiz. Khim. Mekh. Mat., Vol 6,
No 2, 1970, pp 38-42.
HB 8203

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Increasing the Resistance to Corrosion Cracking of Welded Joints in Carbon Steel [illegible] Welding Stress Relief by Plastic [illegible]

by A. I. Zubarik.

RUSSIAN, per. Zhu. Khim. Tekh. Fiz.

No 2, 1970, pp 42-45.

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The Effect of Surface Contamination of Austenitic Stainless Steel on Corrosive Deterioration at Various Temperatures, by Yu. V. Andreev
RUSSIAN, per, Fiziko-Khimicheskaya Mekhanika Materialov, Vol 6, No 2, 1970, pp 107-109
NTC 71-15175-11F

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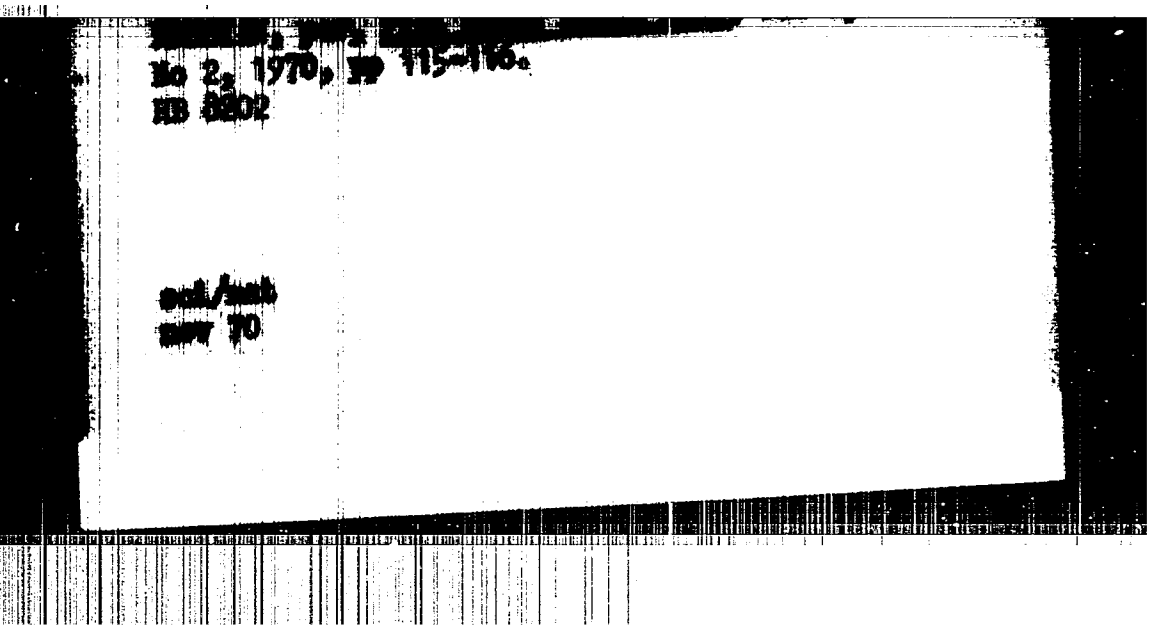

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Determination of Temperature in the Zone of Developing Fretting Corrosion, by A. Ya. Alyab'ev, and Yu. A. Kazimirchik,
RUSSIAN, per. Fiz-Khim Mekh Mat., Vol 6, No 3, 1970, pp 12-14.
HB 8288

Jun 71

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The Physico-Chemical Principles of the Attack of Hydrogen on Steels, by S. D. Bogolyubskii, RUSSIAN, per. Fiz. Khim. Mekh. Mat., Vol 6, No 3, 1970, pp 25-29.
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Influence of the Method of [illegible]
on Their Susceptibility [illegible]
ment, by L.A. Plavich and [illegible],
RUSSIAN, per. Fiz. Khim. Mekh. Mat., Vol 5,
No 3, 1970, pp 30-34.
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On The Stress State Caused by a Laser Beam During the Rupture of Transparent Polymers, by G. V. Plyarsko, RUSSIAN, per, Fiziko-Khimicheskaya Mekhanika Materialov, No 3, 1970, pp 93-97.
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Use of Physical Methods in an Investigation of Corrosion Behaviour of Cr18Ni9 and Cr18Ni10Ti Steels in a Boiling Aqueous Solution of Formic and Acetic Acids, by Yu. I. Perin, et al, RUSSIAN, per, Fiziko-Khimicheskaya Mekhanika Materialov, Vol 6, No 3, 1970, pp 113-116, C.E. Trans 5697

Jan 72

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Corrosion Resistance of Aluminum Alloys.
by D. F. Chernuga. 12 pp.
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Corrosion Resistance of Steel Improved by Iso-
Isothermal Cyaniding, by G. A. Demchova and
V. S. Vanin,
RUSSIAN, per. Fiziko-Khim Mekh Mat., Vol 6,
No 4, 1970, pp 91-92.
HB 8382

Jun 71

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Influence of Carbo-Chromizing of Medium-Carbon Steel on its Fatigue Strength, by V. T. Pokhmurskii and V. B. Dalisov, RUSSIAN, per. Fiziko-Khim Mekh Mat., Vol 6, No 4, 1970, pp 94-96.
HB 8383

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Investigation into the Workability and Sealing Qualities of [illegible]

RUSSIAN, per. Fiziko-Khim Mekh. Mater.
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June 71

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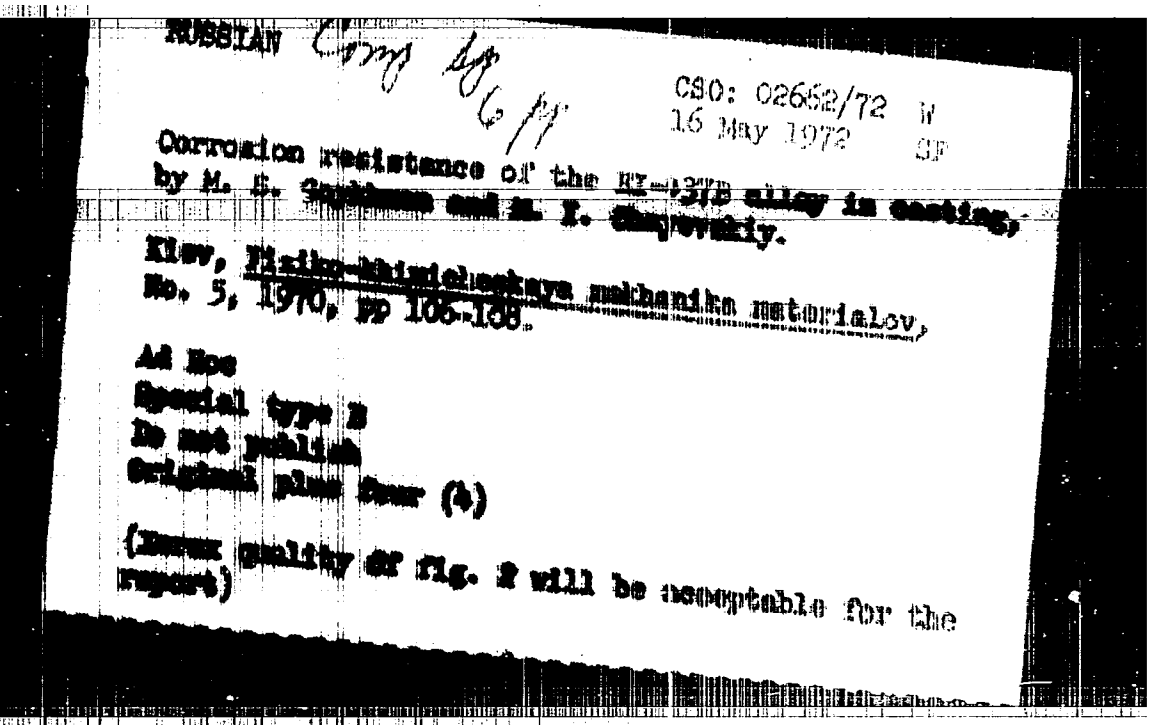

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Corrosion resistance of the [illegible] alloy in casting,
by M. E. [illegible] and A. I. Chayevskiy.
Kiev, Fiziko-khimicheskaya mekhanika materialov,
No. 5, 1970, pp 106-108.

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Stress Corrosion Cracking of Welds Joining Dissimilar Materials, by N.N. Zhegalyak, RUSSIAN, per. Fiz Khim Mekh Mat., Vol 7, No 1, 1971, pp 3-8.
HB 8511

Nov 71

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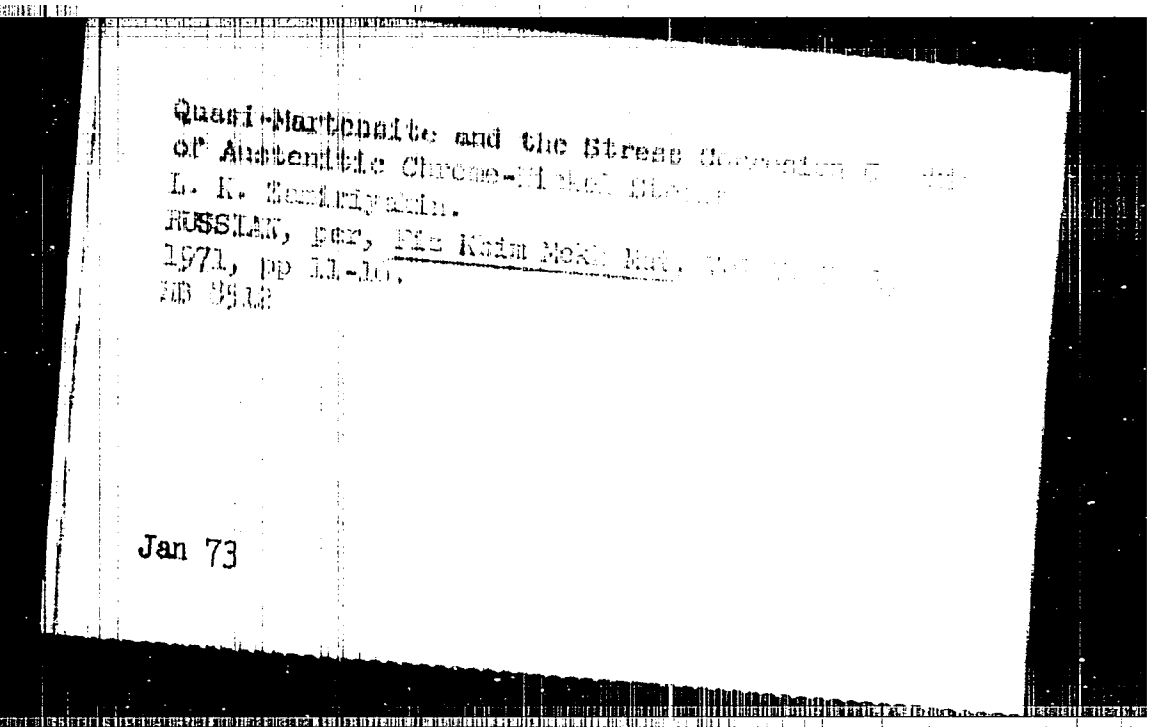

Quasi-Martensite and the Stress [illegible]
of Austenitic Chrome-[illegible]
L. K. Gershtein.
RUSSIAN, per, [illegible]
1971, pp 11-16,
MB 9512

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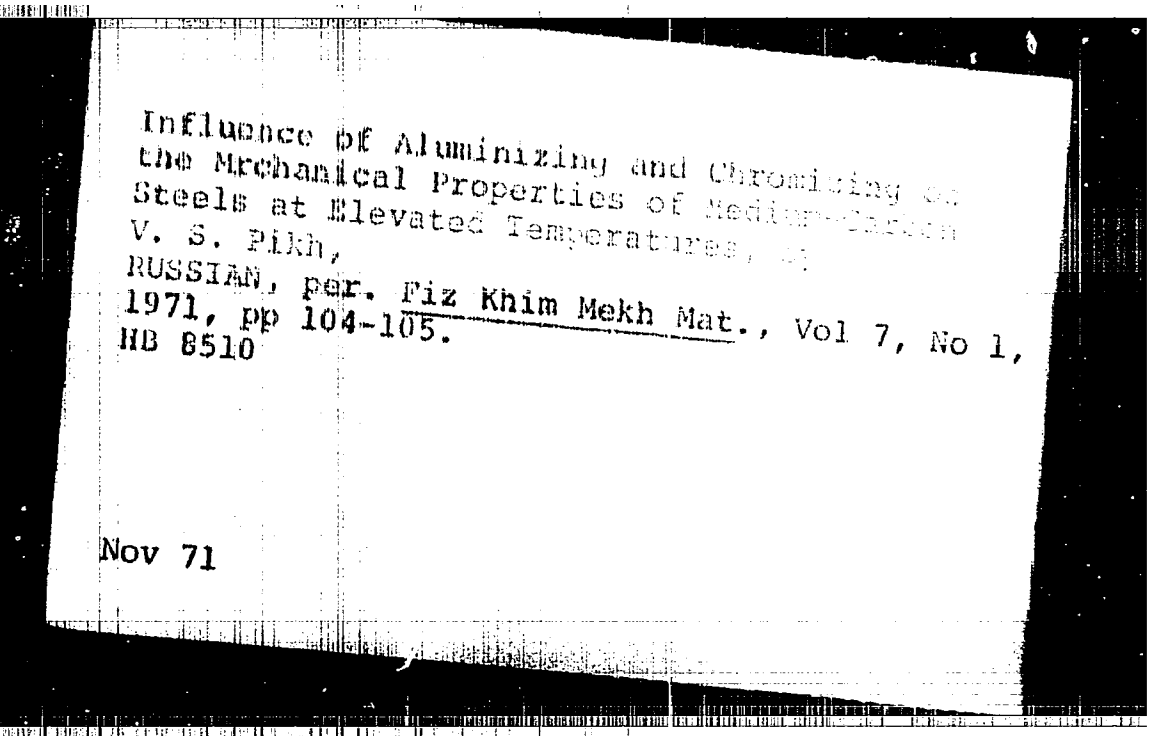

Influence of Aluminizing and Chromizing on the Mechanical Properties of Medium-Carbon Steels at Elevated Temperatures, by
V. S. Pikh,
RUSSIAN, Per. Fiz Khim Mekh Mat., Vol 7, No 1, 1971, pp 104-105.
HB 8510

Nov 71

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Propagation of cracks in composite materials, by
L. T. Bareshnitskiy.
RUSSIAN, per, Fiziko-Khimicheskaya Mekhanika Materialov,
Vol 7, No 1, 1971, pp 108-110.
NASA TT F 13,934

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On the Question of the Influence of Liquid Media on the Longevity of Oriented Polymethylmethacrylate, by A. N. Tynnyy, N. A. Ol'khovich-Novosadyuk, 5 pp. RUSSIAN, per, Fiziko-Khimicheskaya Mekhanika Materialov, No 2, 1971.
ARM/FSTC/HT-23-90-72

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Selectivity of Effects of Strength Reduction in Polymer Materials Under the Action of Surface-Active Media, by Ye. D. Shchukin, 10 pp.

RUSSIAN, per, Fiziko-Khimicheskaya Mekhanika Materialov, No 2, 1971, pp 33-39.

AFM/FSTC/HT-23-114-72

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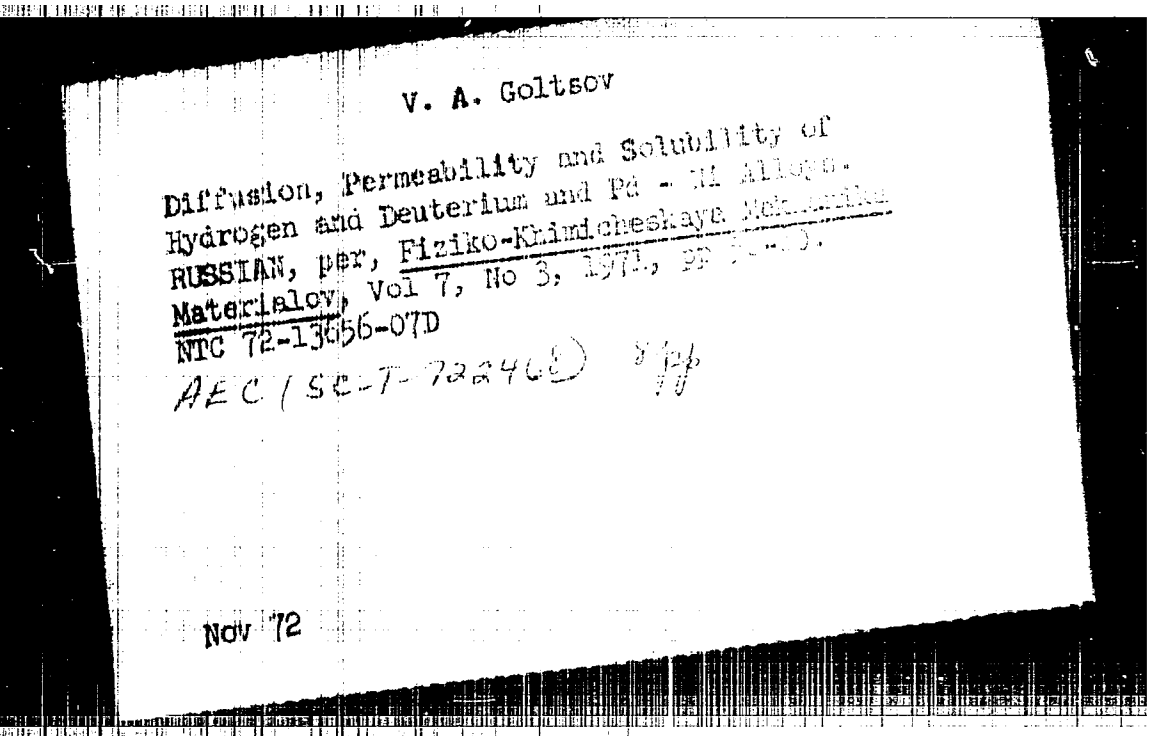

V. A. Goltsov

Diffusion, Permeability and Solubility of Hydrogen and Deuterium and Pd - Ni Alloys.
RUSSIAN, per, Fiziko-Khimicheskaya Mekhanika Materialov, Vol 7, No 3, 1971, pp [illegible].
NTC 72-13656-07D
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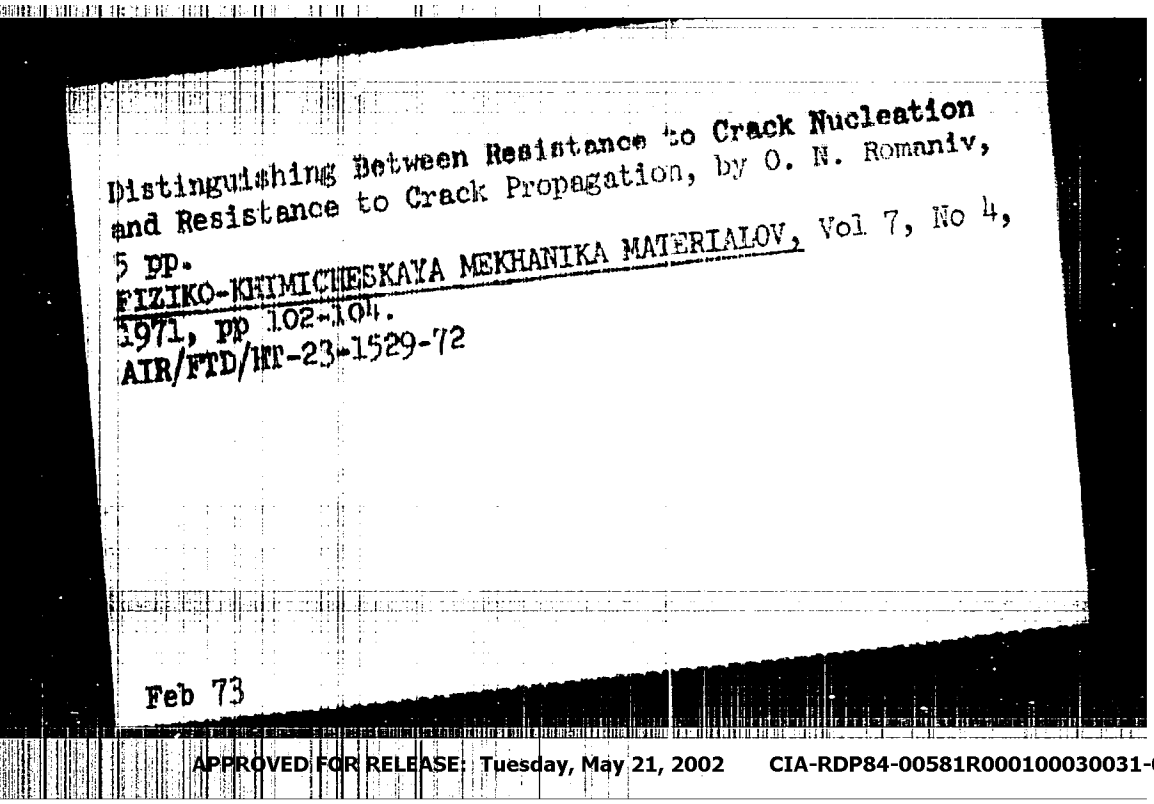

Distinguishing Between Resistance to Crack Nucleation and Resistance to Crack Propagation, by O. N. Romaniv, 5 pp.
FIZIKO-KHIMICHESKAYA MEKHANIKA MATERIALOV, Vol 7, No 4, 1971, pp 102-104.
AIR/FTD/HT-23-1529-72

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Physical & Chemical Processes Occurring on the Polished Surfaces of Ti Alloy Parts, by G. I. Sayutin.
RUSSIAN, per, Fiz Khim Mekh Mat, Vol 7(5), 1971, pp 22-24.
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Effect of Small Palladium Additions on the Permeability of Medium-Alloy Steel of Hydrogen, by V. I. Arkharov,
RUSSIAN, per. Fiz Khim Mekh Mat., Vol 7, No 5, 1971, pp 51-54.
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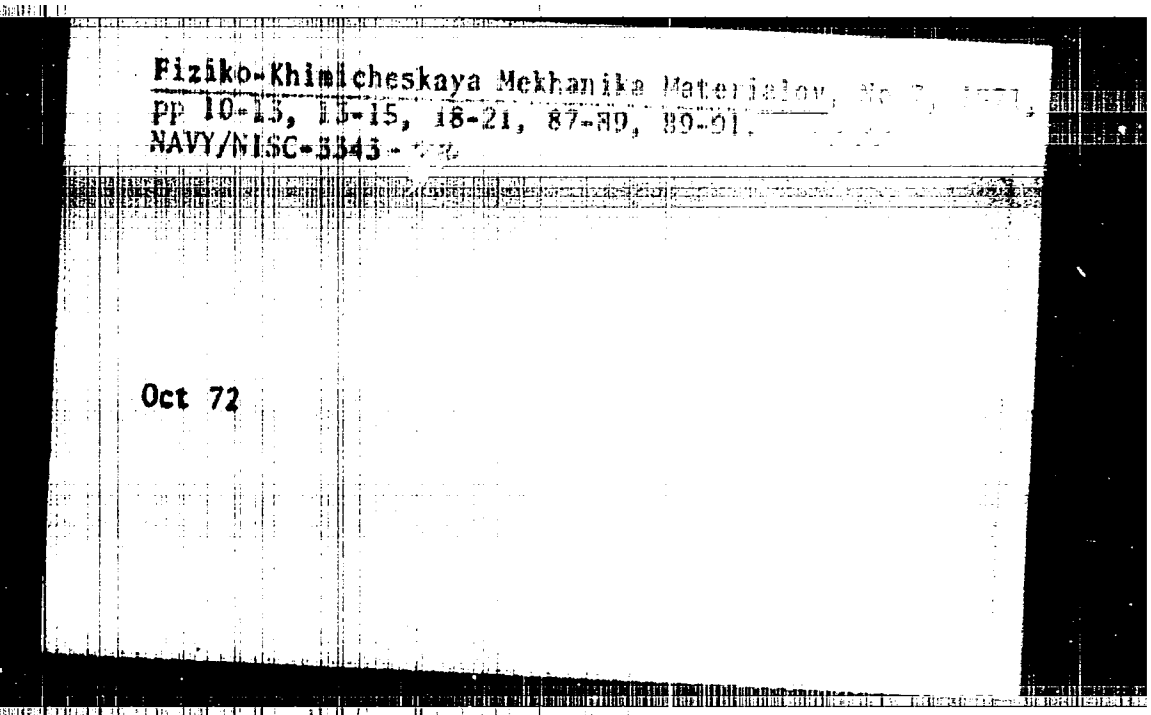

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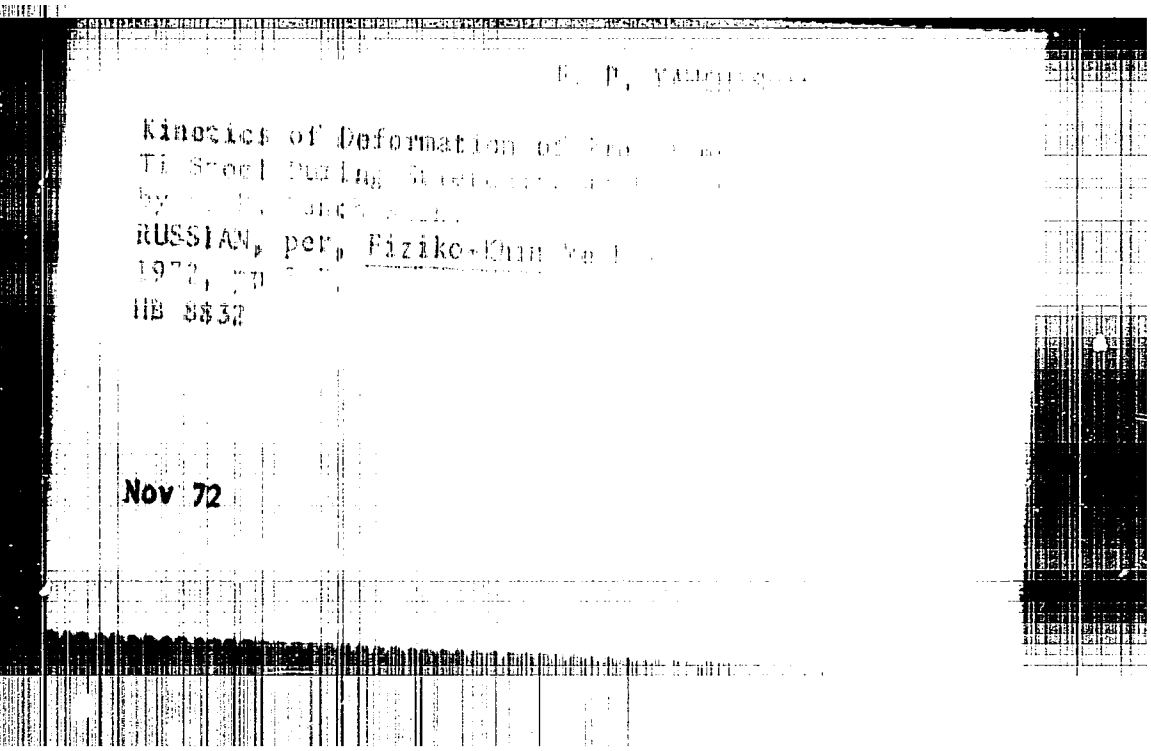

E. P. Yakimova

Kinetics of Deformation of [illegible]
Ti Steel During Stretching [illegible]
by [illegible]
RUSSIAN, per. Fiziko-Khim Ye [illegible]
1972, [illegible]
HB 8832

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The Fatigue Fracture of Steel Grade ... Conditions of Fretting Corrosion
By R.G. Pogoretskii,
RUSSIAN, per. Fiz Khim Mekh Mat., Vol 8, No 1, 1972, pp 7-10.
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Effect of Some Diffusion Coatings on the Resistance of Steel to Fretting, by A. A. Denko.
RUSSIAN, per, Fiziko Khim. Mekh Mat, Vol 8, No 1, 1972, pp 11-13.
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YE. V. AKSENOVA

Effect of Bath Aluminizing upon the Mechanical Properties of Steel, by Ye. V. Aksenova
RUSSIAN, per, Fiziko-Khim Mekh Mat, Vol 3, [illegible]
pp 13-15.
HB 8833

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Residual Stresses and Mechanical Strength of Boronized Steels, by I. S. Dukarevich.
RUSSIAN, per, Fiziko Khim Mekh Mat, Vol 8, No 1, 1972, pp 1-4.
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Corrosive Breakdown of Sintered Carbides
Under the Action of Contact Loads, by V. A. Shilin.
RUSSIAN, per, Fiz Khim Mekh Mat, Vol 8, No 1,
1972, pp 90-96.
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K. I. Vereshchagin

Corrosion Cracking in Certain Low-Alloy Steels When Used in Petrochemical Equipment, by K. I. Vereshchagin
RUSSIAN, per, Fiziko-Khim Mekh Mat, Vol 8, No 1, 1972, pp 90-91.
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Corrosion Fatigue Strength of Austenitic Cr-Mi-Mo Steel Under a Pulsating Load in a Carbamite Solution, by V. A. Borisenko.

RUSSIAN, per, Fiziko Khim Mekh Mat, Vol 8, No 1, 1972, pp 92-93.

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V. A. GENEL'

Corrosion of Chromized Steel in a Solution of Nitric Acid Salts, by V. A. Genel',
RUSSIAN, per, Fiziko-Khim Mekh Mat, Vol. 8, No 1,
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YE. A. ABRAMYAN

Method of Studying the Effect of Rarified Gas Currents on the Creep of Metals, by Ye. A. Abramyan
RUSSIAN, per, Fiziko-Khim Mekh Mat, [illegible]
pp 96-98,
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A. K. MINDYUK

Permeability of Electroplated Steel to Hydrogen,
by A. K. Mindyuk.
RUSSIAN, per, Fiziko-Khim Mekh Mat, Vol 8, No 1, 1972,
pp 99-100.
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V. S. SAPIRO

On the Effusion of Hydrogen from Hot-Rolled Steel,
by V. S. Sapiro,
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A. N. Romaniv

Small-Cycle Fatigue of 13% Chromium Steel in Gaseous Hydrogen, by A. N. Romaniv.
RUSSIAN, per, Fiziko-Khim Mekh Mat, Vol 8, No 1, 1972, pp 102-104.
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YE. P. POKHMURSKIY

Improvement of the Erosion-Corrosion Resistance of Steel by Spray Coating and Surface [illegible] Under Vacuum, by Ye. P. Pokhmurskiy

RUSSIAN, por, Fiziko-Khim Mekh Mat, 1972, pp 111-112.

HB 8861

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Electron Micrographic Study of the Effect of Deformation on the Character of Oxides in Stainless Steel, by V. V. Gerasimov.
RUSSIAN, per, Fiziko-Khim Mekh Mat, Vol 8, No 1, 1972, pp 115.
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Equipment for Investigating the Interaction of Gas With Metals Under a High Vacuum, by
O. I. Kravchuk.
RUSSIAN, per, Fiziko-Khim Mekh. Mat, Vol 8,
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Improving the Resistance to Corrosion Cracking of Welded Apparatus of Carbon and Low-Alloy Steels, by K. I. Vereshchagin.
RUSSIAN, per, Fiz Khim Mekh Mat., Vol 8, No 2, 1972, pp 3-5.
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Breakdown Characteristics of Maraging Steel Under Cavitation, by V. A. Strizhak.
RUSSIAN, per, Fiz Khim Mekh. Mat, Vol 8, No 2, 1972, pp 8-9.
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Effect of Aluminizing From "Dross" on the Mechanical Characteristics of Type 4 Steel, by V. S. Zamikhovskii.
RUSSIAN, per, Fiz Khim Mekh Mat, Vol 8, No 2, 1972, pp 13-20.
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A. L. Burykina

Search for Materials, Stable in Contact with [illegible] and Rolling Mill Scale During Reduction of the Latter.
RUSSIAN, por, Fiz-Khim Mekh Mat, vol [illegible]
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M. A. Krishtal

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Investigation of the Dynamic Properties of Oriented Glass-fiber Reinforced Plastics Under Compression, by Ye. N. Kuznetsov, G. M. Savitskiy. 5 pp.
RUSSIAN, rpt, Fiziko-khimiya i Mekhanika Orientirovannykh Stekloplastikov, 1967, pp 220-224.
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Chapter Six (Excerpts) Phase Analysis of Iron-Based Alloys, by N. F. Lashko, L. V. Zaslavskaya, 32 pp.
RUSSIAN, bk, Fiziko-Khimicheskiye Metody Fazovogo Analiza Staley i Splavov, Moscow, 1970, 479 pp.
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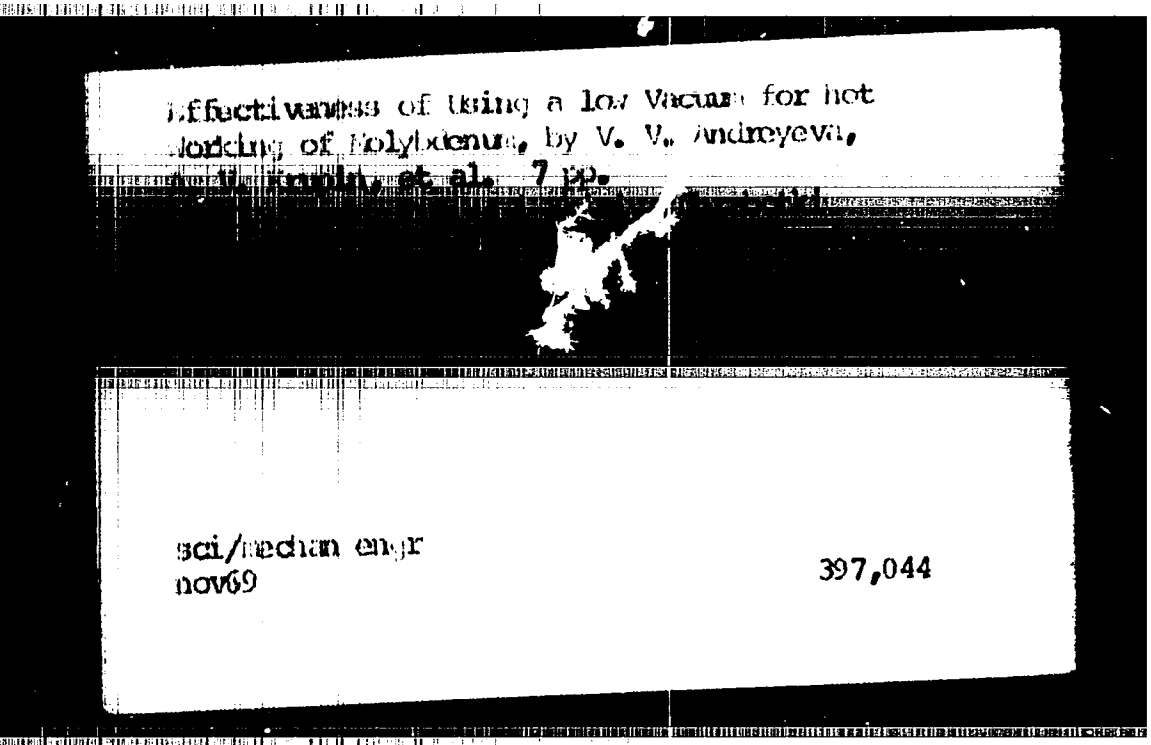

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